# PATENT COOPERATION TREATY



REC'D 16 FEB 2005

#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference  FOR FURTHER ACTION  See Notification of Transmittal of International  Profile 1997 (Form POTION ACTION)						
14836-9PCT			Preliminary E	Examination Report (Form PCT/IPEA/416)		
International application No. PCT/CA 03/01602			International filing date (da 27.10.2003	ny/month/year)	Priority date (day/month/year) 25.10.2002	
				oth national classification and	I IPC	
1	B7/00		nt Classification (IPC) or b	our national classification and	TIPO	
Appl	loont					
Appl MIC		RIDG	E TECHNOLOGIES	INC. et al.		
1.				mination report has been per applicant according to Ar		ternational Preliminary Examining
[	Addi	Only (		applicant according to 7 ii		
			ABT			
2.	This	REPO	ORT consists of a total of	of 5 sheets, including this	cover sneet.	
						tion, claims and/or drawings which have
ļ		beer (see	n amended and are the Rule 70.16 and Section	basis for this report and/oi n 607 of the Administrative	r sneets containing e Instructions unde	rectifications made before this Authority r the PCT).
	Thes	se anr	nexes consist of a total	of sheets.		
_						
3.	This	repor		elating to the following iten	ns:	
I ⊠ Basis of the opinion						
II  Priority						
	III			,	eity, inventive step	and industrial applicability
	IV		Lack of unity of invent		remard to marrelly.	incombine about an individual amount - to 194
	V	Ø	citations and explanat	ions supporting such state	ement	inventive step or industrial applicability;
	VI		Certain documents cit			
	VII		Certain defects in the	international application		
	VIII  Certain observations on the international application					
1						
<u> </u>						
Date of submission of the demand			Date of completion of	this report		
25.05.2004				11.02.2005		
25.05.2004				11.02.2005		
Name and mailing address of the international			nai /	Authorized Officer		
nro!	preliminary examining authority:  European Patent Office - Gitschiner Str. 103					of the same of the
preli		Eu	ropean Patent Office - Gits	schiner Str. 103		
preli		Eu D-1	ropean Patent Office - Gits 10958 Berlin . +49 30 25901 - 0	schiner Str. 103	Polesello, P	Though the

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/CA 03/01602

1.	<b>Basis</b>	of the	report
----	--------------	--------	--------

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	scription, Pages						
	1-14		as originally filed					
	Ol-:	ms, Numbers						
		•						
	1-43		as originally filed					
	Drav	wings, Sheets						
	1/5-5	5/5	as originally filed					
2.	With lang	regard to the <b>langua</b> uage in which the inte	age, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.					
	The	se elements were ava	ailable or furnished to this Authority in the following language: , which is:					
		$\exists$ the language of a translation furnished for the purposes of the international search (under Rule 23.1(l						
		the language of publication of the international application (under Rule 48.3(b)).						
		the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).						
3.	With	n regard to any <b>nucle</b> rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:					
		contained in the international application in written form.						
		and the state of t						
		☐ furnished subsequently to this Authority in written form.						
		☐ furnished subsequently to this Authority in computer readable form.						
		in the international application as filed has been furnished.						
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.						
4.	The	amendments have r	esulted in the cancellation of:					
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/CA 03/01602

5. 🗆	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).
	(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)	Yes:	Claims	1-43
	No:	Claims	none
Inventive step (IS)		Claims Claims	1-43 none
Industrial applicability (IA)	Yes:	Claims	1-43
	No:	Claims	none

2. Citations and explanations

see separate sheet



#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following document:

D1: US-B-6 379 9881 (CONLEY WILLIAM R ET AL) 30 April 2002 (2002-04-30)

- 2. Although claims 16 and 32 have been drafted as separate independent claims, they appear to relate effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought and in respect of the terminology used for the features of that subject-matter. The aforementioned claims therefore lack conciseness and as such do not meet the requirements of Article 6 PCT.
- 3. Document D1, which is considered to represent the most relevant state of the art, discloses (cf. figures 4A-4H) a method for producing a packaged integrated circuit and a packaged integrated circuit from which the subject-matter of claims 1,16 and 32 differs in that the MEMS structure comprises a heater and the protective material on it is removed by heating.
- 3.1. The subject-matter of claims 1,16 and 32 is therefore new (Article 33(2) PCT).
- 3.1.1. The problem to be solved by the present invention may be regarded as removing the protecting material without having to etch it.
- 3.1.2. The solution to this problem proposed in claims 1,16 and 32 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

in D1 it is explicitly said that the protective material is etched and no hint is made towards using the microheater in the structure for heating the encapsulating material.

Claims 2-15, 17-31, 33-43 are respectively dependent on claims 1,16 and 32 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

4. Claims 1-43 meet the requirements of Article 33(4) PCT with respect to industrial applicability.



International application No. PCT/CA 03/01602

**EXAMINATION REPORT - SEPARATE SHEET**